QC ABSTRACT

NAME OF WORK: Construction and Developments of Toilets in W N 6.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	4 set /31-50 cum	36.18	8	8

ಸಹಾಯಕ ಅಧಿಕಾರಿಯವರು ಬಿ.ಬಿ.ಎಂ.ಪಿ ಮಲ್ಲೇಶ್ವರಂ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಮಲ್ಲೇಶ್ವರಂ ಉಪ ವಿಭಾಗ ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

9	RCC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	27.69	6	6
10	RCC(M20)	Compressive Strength(7days and 28days)	2 set /6-15 cum	14.27	4	4
11	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
12	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
13	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
14	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
15	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1
16	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
17	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
18	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1
11	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-05-06-38** **Date: 04-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-05-06-38** **Date: 30-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-01-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.0N/mm^2	Not less than 53 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-05-06-38** **Date: 04-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-01-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-05-06-38** **Date: 04-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.56	_
5	Bulk Density(Compacted) (Kg/l)	1.59	_
6	Water Absorption(%)	0.21	_

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-05-06-38** **Date: 04-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-01-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-01-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-05-06-38** **Date: 04-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.53	_
5	Bulk Density(Compacted) (Kg/l)	1.55	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The Results Obtained are Satisfactory as per Standard Requirements

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Authorized Signature
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-05-06-38** **Date: 04-01-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-01-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	240	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	206	528	52.8	47.2	15-34	35-59	60-79	80-100
6	300 micron	205	733	73.3	26.7	5-20	8-30	12-40	15-50
7	150 micron	191	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-05-06-38** **Date: 04-01-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-05-06-38** **Date: 27-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-01-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	199	199	15880	32.247	2030.7	1974.6	Not less than 1800Kg/m^3
2	404	202	202	16485	31.421	1906.1		
3	402	201	198	15999	31.789	1986.9		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : **CP-2021-05-06-38** **Date: 27-01-21**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	201	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	201	203	
3	403	202	203	
4	402	202	203	
5	401	200	199	
6	400	200	203	
7	403	200	201	
8	400	201	201	
9	400	201	202	
10	404	200	203	
11	403	201	203	
12	401	199	201	
13	403	201	202	
14	403	200	199	
15	404	201	202	
16	401	201	199	
17	401	201	202	
18	400	200	200	
19	401	200	203	
20	399	201	202	
Average of 20	**402**	**201**	**202**	

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CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : **CP-2021-05-06-38** **Date: 27-01-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80316	424.0	5.3	5.3
2	403	201	80960	426.2	5.3	
3	403	202	81344	427.5	5.3	
4	402	202	80982	430.4	5.3	
5	401	200	80288	430.7	5.4	
6	400	200	80066	430.9	5.4	
7	403	200	80538	425.8	5.3	
8	400	201	80344	430.1	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-05-06-38** **Date: 27-01-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-01-21
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	23-01-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	149	201	11980	31.015	2589.0	2673.5	Not less than 1800Kg/m^3
2	399	148	201	11869	32.983	2778.8		
3	405	153	199	12331	32.710	2652.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2021-05-06-38** **Date: 27-01-21**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	399	150	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	151	202	
3	403	149	199	
4	399	152	200	
5	402	152	203	
6	403	150	201	
7	403	150	203	
8	402	151	202	
9	402	151	201	
10	401	150	199	
11	403	152	203	
12	401	152	202	
13	403	150	201	
14	401	153	202	
15	402	150	202	
16	399	149	203	
17	402	151	199	
18	399	152	199	
19	401	151	202	
20	403	151	199	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2021-05-06-38** **Date: 27-01-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	150	60090	330.4	5.5	5.4
2	403	151	60868	330.0	5.4	
3	403	149	60263	328.5	5.5	
4	399	152	60669	328.0	5.4	
5	402	152	61174	322.9	5.3	
6	403	150	60311	324.2	5.4	
7	403	150	60508	326.2	5.4	
8	402	151	60791	327.9	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : **CP-2021-05-06-38** **Date: 02-01-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-01-21

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 01-01-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF CERAMIC TILES

Lab ID	:	**CP-2021-05-06-38** **Date: 11-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-21
Sample Type/ Size	:	Ceramic tiles (400X400)mm
Reference to BIS codes	:	IS 13630 (part 1) : 2006, IS 15622:2006
Date of test	:	06-02-21

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	400	400	400	400	6.54	6.51	6.48	6.57
2	400	400	400	400	6.52	6.55	6.58	6.48
3	400	400	400	400	6.52	6.48	6.48	6.49
4	400	400	400	400	6.55	6.49	6.58	6.52
5	400	400	400	400	6.58	6.54	6.55	6.54
6	400	400	400	400	6.54	6.58	6.48	6.58
7	400	400	400	400	6.55	6.48	6.55	6.54
8	400	400	400	400	6.48	6.55	6.54	6.58
9	400	400	400	400	6.55	6.54	6.54	6.54
10	400	400	400	400	6.54	6.55	6.55	6.48
Average	**400**		**400**		**6.53**			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Water absorption by mass	Average value of water absorption
1	13.30	13.23
2	13.87	
3	13.34	
4	12.93	
5	12.73	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	400	400	6.48	18.5	17.76
2	400	400	6.58	17.4	
3	400	400	6.48	18.6	
4	400	400	6.58	17.2	
5	400	400	6.55	17.1	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	15/03/2021	150.93	X	22667	**8.954**	273.4	12.1	12.4
					150.19	X					
					150.31						
2	Concrete For Flooring	M15	08/03/2021	15/03/2021	149.74	X	22436	**8.095**	285.4	12.7	
					149.83	X					
					150.63						
3	Concrete For Flooring	M15	08/03/2021	15/03/2021	150.78	X	22620	**8.735**	278.7	12.3	
					150.02	X					
					151.98						

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	05/04/2021	149.14	X	22659	**8.415**	385.9	17.0	17.3
					151.93	X					
					151.89						
2	Concrete For Flooring	M15	08/03/2021	05/04/2021	149.16	X	22327	**8.633**	387.8	17.4	
					149.69	X					
					150.64						
3	Concrete For Flooring	M15	08/03/2021	05/04/2021	151.49	X	22924	**8.105**	402.5	17.6	
					151.32	X					
					151.97						

* The Results Obtained are Satisfactory as per Standard Requirements

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	15/03/2021	150.19	X	22418	**8.954**	276.7	12.3	12.4
					149.27	X					
					151.00						
2	Concrete For Flooring	M15	08/03/2021	15/03/2021	150.26	X	22555	**8.095**	289.1	12.8	
					150.11	X					
					151.52						
3	Concrete For Flooring	M15	08/03/2021	15/03/2021	150.24	X	22473	**8.735**	270.8	12.0	
					149.58	X					
					149.77						

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	05/04/2021	150.68	X	22628	**8.415**	392.0	17.3	17.6
					150.17	X					
					151.26						
2	Concrete For Flooring	M15	08/03/2021	05/04/2021	150.22	X	22484	**8.633**	398.5	17.7	
					149.68	X					
					149.51						
3	Concrete For Flooring	M15	08/03/2021	05/04/2021	149.58	X	22335	**8.105**	394.9	17.7	
					149.31	X					
					150.20						

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Date.....**Quality Manager**

CIVIL PRO BANGALORE

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	15/03/2021	149.25	X	22626	**8.954**	278.5	12.3	12.5
					151.60	X					
					151.69						
2	Concrete For Flooring	M15	08/03/2021	15/03/2021	149.12	X	22483	**8.095**	274.3	12.2	
					150.77	X					
					150.23						
3	Concrete For Flooring	M15	08/03/2021	15/03/2021	151.05	X	22735	**8.735**	294.8	13.0	
					150.51	X					
					150.48						

* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 05/04/2021

Lab ID	:	**CP-2021-05-06-38**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-03-21
Customer ID	:	Concrete For Flooring
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	05/04/2021	150.71	X	22890	**8.415**	401.5	17.5	17.4
					151.88	X					
					150.52						
2	Concrete For Flooring	M15	08/03/2021	05/04/2021	150.48	X	22801	**8.633**	389.0	17.1	
					151.52	X					
					150.50						
3	Concrete For Flooring	M15	08/03/2021	05/04/2021	150.27	X	22555	**8.105**	394.9	17.5	
					150.10	X					
					149.98						

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 15/03/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	15/03/2021	149.56	X	22600	**8.954**	284.6	12.6	12.3
					151.11	X					
					150.30						
2	Concrete For Flooring	M15	08/03/2021	15/03/2021	150.90	X	22636	**8.095**	273.6	12.1	
					150.01	X					
					151.82						
3	Concrete For Flooring	M15	08/03/2021	15/03/2021	151.17	X	22966	**8.735**	279.3	12.2	
					151.92	X					
					150.51						

* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 05/04/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-03-21

Customer ID : Concrete For Flooring

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)		Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Concrete For Flooring	M15	08/03/2021	05/04/2021	149.68	X	22323	**8.415**	382.8	17.1	17.5
					149.13	X					
					150.35						
2	Concrete For Flooring	M15	08/03/2021	05/04/2021	151.44	X	22600	**8.633**	396.5	17.5	
					149.24	X					
					149.12						
3	Concrete For Flooring	M15	08/03/2021	05/04/2021	149.88	X	22699	**8.105**	401.2	17.7	
					151.44	X					
					150.95						

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 20/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-21

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	13/01/2021	20/01/2021	150.42 X 149.34 X 151.16	22463	**8.913**	414.8	18.5	18.4
2	Footing Concrete	M20	13/01/2021	20/01/2021	150.33 X 149.11 X 150.81	22416	**8.880**	411.7	18.4	
3	Footing Concrete	M20	13/01/2021	20/01/2021	150.51 X 150.95 X 151.41	22719	**8.024**	415.6	18.3	

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 10/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-01-21

Customer ID : Footing Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	13/01/2021	10/02/2021	149.80 X 151.41 X 150.36	22680	**8.611**	521.8	23.0	22.9
2	Footing Concrete	M20	13/01/2021	10/02/2021	150.47 X 149.62 X 151.62	22514	**8.493**	496.4	22.0	
3	Footing Concrete	M20	13/01/2021	10/02/2021	149.72 X 150.33 X 149.85	22507	**8.292**	535.4	23.8	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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★ Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 25/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-01-21

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	18/01/2021	25/01/2021	150.05 X 151.91 X 151.89	22794	**8.913**	416.6	18.3	18.5
2	Plinth Beam Concrete	M20	18/01/2021	25/01/2021	149.47 X 150.84 X 151.27	22547	**8.880**	427.5	19.0	
3	Plinth Beam Concrete	M20	18/01/2021	25/01/2021	149.50 X 151.67 X 151.88	22674	**8.024**	415.9	18.3	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 15/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-01-21

Customer ID : Plinth Beam Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Beam Concrete	M20	18/01/2021	15/02/2021	150.71 X 150.87 X 149.63	22738	**8.611**	533.1	23.4	23.3
2	Plinth Beam Concrete	M20	18/01/2021	15/02/2021	150.01 X 149.04 X 151.93	22357	**8.493**	501.7	22.4	
3	Plinth Beam Concrete	M20	18/01/2021	15/02/2021	150.23 X 151.73 X 150.18	22796	**8.292**	544.9	23.9	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 28/01/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-01-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/01/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	21/01/2021	28/01/2021	150.63 X 151.53 X 150.82	22825	**8.913**	416.9	18.3	18.2
2	Column Concrete	M20	21/01/2021	28/01/2021	149.52 X 149.88 X 150.74	22409	**8.880**	408.2	18.2	
3	Column Concrete	M20	21/01/2021	28/01/2021	151.43 X 149.85 X 149.33	22692	**8.024**	412.4	18.2	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 18/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-01-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	21/01/2021	18/02/2021	150.37 X 149.94 X 149.67	22547	**8.611**	522.7	23.2	23.2
2	Column Concrete	M20	21/01/2021	18/02/2021	151.92 X 150.85 X 151.21	22918	**8.493**	524.8	22.9	
3	Column Concrete	M20	21/01/2021	18/02/2021	150.40 X 150.50 X 150.10	22635	**8.292**	535.0	23.6	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

The results pertain to the samples received and tested.

All information furnished by the Customer/Representative

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 01/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-01-21

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	25/01/2021	01/02/2021	149.25 X 151.37 X 151.80	22593	**8.913**	416.9	18.5	18.3
2	Lintel Concrete	M20	25/01/2021	01/02/2021	151.49 X 149.40 X 150.39	22633	**8.880**	412.7	18.2	
3	Lintel Concrete	M20	25/01/2021	01/02/2021	150.03 X 149.11 X 150.10	22371	**8.024**	405.9	18.1	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 22/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-01-21

Customer ID : Lintel Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Lintel Concrete	M20	25/01/2021	22/02/2021	150.46 X 149.13 X 149.32	22438	**8.611**	538.3	24.0	23.1
2	Lintel Concrete	M20	25/01/2021	22/02/2021	150.44 X 151.51 X 150.34	22794	**8.493**	504.9	22.1	
3	Lintel Concrete	M20	25/01/2021	22/02/2021	151.24 X 149.90 X 149.74	22670	**8.292**	526.0	23.2	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 09/02/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-21

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/02/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	02/02/2021	09/02/2021	149.32 X 151.90 X 149.47	22682	**8.913**	423.2	18.7	18.7
2	Roof Concrete	M20	02/02/2021	09/02/2021	151.35 X 151.67 X 150.91	22956	**8.880**	424.2	18.5	
3	Roof Concrete	M20	02/02/2021	09/02/2021	150.10 X 150.46 X 150.30	22583	**8.024**	428.8	19.0	

* The Results Obtained are Satisfactory as per Standard Requirements

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-05-06-38** **Date: 02/03/2021**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-02-21

Customer ID : Roof Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/03/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	02/02/2021	02/03/2021	150.36 X 150.52 X 149.41	22631	**8.611**	524.4	23.2	23.1
2	Roof Concrete	M20	02/02/2021	02/03/2021	149.04 X 149.47 X 151.35	22276	**8.493**	502.2	22.5	
3	Roof Concrete	M20	02/02/2021	02/03/2021	150.73 X 150.84 X 151.85	22737	**8.292**	536.0	23.6	

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Quality Manager

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2021-05-06-38** **Date: 08-02-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-02-21

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes :
IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 05-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2021-05-06-38** **Date: 08-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	_
2	Specific Gravity	2.51	_
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	_
5	Loose Bulk Density (Kg/litre)	1.73	_

Note:
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Authorized Signatory
Quality Manager

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2021-05-06-38** **Date: 09-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-02-21
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-02-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-05-06-38** **Date: 09-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2021-05-06-38** **Date: 14-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-02-21
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	09-02-21

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	32.5	33.1
2	198.48	159.64	75.25	33.8	
3	199.54	159.54	75.48	32.5	
4	197.68	159.22	75.55	33.5	
5	198.11	159.87	75.32	32.8	
6	198.18	160.02	75.11	33.4	
7	198.45	158.99	75.98	33.2	
8	197.22	159.22	75.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2021-05-06-38** **Date: 12-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Agency	:	Construction and Developments of Toilets in W N 6.
Project Name	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-21
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	10-02-21

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

Note:

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID : **CP-2021-05-06-38** **Date: 10-02-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Construction and Developments of Toilets in W N 6.

Agency : M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.

Customer's Reference : BBMP/EE/BTP/WO/170/2018-19

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 08-02-21

Type of Sample : M.S Rectangular Pole(65X65X6)mm

Reference to BIS codes : IS:1608-2005(RA 2011), IS 1599-2012.

Date of test : 08-02-21

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

Note:

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2021-05-06-38** **Date: 14-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-02-21
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of test	:	12-02-21

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2021-05-06-38** **Date: 17-02-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Construction and Developments of Toilets in W N 6.
Agency	:	M. Prakash, #136, Kashinagara Main Road, Amruthahalli, Bangalore-92.
Customer's Reference	:	BBMP/EE/BTP/WO/170/2018-19
Source of sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-21
Identification Mark on Brick	:	MTB, Brick for inspection Chamber
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	11-02-21

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					**8.1**	

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Lab ID : **CP-2021-05-06-38** **Date: 17-02-21**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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